NC/QC/PD/MW-01/2019-20/YP3-C1 Date: 13-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**268 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.99 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.14 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.19 N/Sq mm**	Shall not be less than 27 N/Sqmm

Page No. 1/1,

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For Newzen Consultants Bangalore

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NC/QC/PD/MW-01/2019-20/YP3-PCC1

Date: 13-05-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	63.85	0 -20	30- 70
10mm	22.10	0 -5	10- 35
4.75mm	4.45	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	95.85	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.10	60-95	75-100	85-100	
01.18	64.95	30-70	55-90	75-100	
600. mic	39.40	15-34	35-59	60-79	
300.mic	22.60	5-20	8-30	12-40	
150.mic	7.35	0-10	0-10	0-10	

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For Newzen Consultants Bangalore

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NC/QC/PD/MW-01/2019-20/YP3-C2 Date: 22-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**184 min**	Shall not be less than 30 min
2	Final setting time	**269 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.24 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.01 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.21 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/PD/MW-01/2019-20/YP3-FA1

Date: 22-05-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.40**	60-95	75-100	85-100	
01.18	**62.85**	30-70	55-90	75-100	
600. mic	**39.20**	15.34	35-59	60-79	
300.mic	**20.75**	5-20	8-30	12-40	
150.mic	**7.40**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.71 %**	-----
2	Silt Content	----	**0.84 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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NC/QC/PD/MW-01/2019-20/YP3-CA1

Date: 22-05-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.35	85-100	90 - 100
10 mm	41.80	0 - 20	25 - 55
4.75 mm	6.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	21.60 %	Not to exceed 25 %
2.	Crushing value	27.95 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/PD/MW-01/2019-20/YP3-S1

Date: 22-05-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 12, 16 & 25 mm **TMT Steel.**
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 08 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req as per IS 1786-2008
01	Observed diameter of bar	**8.0mm**	8.0mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.392**	0.363	**0.884**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**536.0**	500.0	**547.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**18.80**	12.00	**19.40**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**617.0**	545.0	**640.0**	545.0

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Date: 22-05-2019

TABLE – 2

SL No	Details	For 16 mm		For 25 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**16.0 mm**	16.0 mm	**25.0mm**	25.0mm
02	Observed Wt/m Length **Kg/m**	**1.590**	1.483	**3.854**	3.697
03	Proof stress/Yield stress, fy , **N/mm^2**	**554.0**	500.0	**564.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.40**	12.00	**20.80**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**636.0**	545.0	**649.0**	545.0

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NC/QC/PD/MW-01/2019-20/YP3-SB1 Date: 22-05-2019

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	Solid	80000	340	4.25	4.31
2	,,	,,	80000	335	4.19	
3	,,	,,	80000	360	4.50	

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NC/QC/PD/MW-01/2019-20/YP3-SB2 Date: 22-05-2019

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks) BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	345	4.31	**4.29**
2	,,	,,	80000	330	4.13	
3	,,	,,	80000	355	4.44	

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NC/QC/PD/MW-01/2019-20/YP3-CB1 Date: 03-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-19	03-06-19	07	22500	305	13.56	**13.26**
	002	"	"	"	"	290	12.89	
	003	"	"	"	"	300	13.33	

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NC/QC/PD/MW-01/2019-20/YP3-CB1a

Date: 24-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-19	24-06-19	28	22500	415	18.44	**18.15**
	002	"	"	"	"	410	18.22	
	003	"	"	"	"	400	17.78	

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For Newzen Consultants Bangalore

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NC/QC/PD/MW-01/2019-20/YP3-CB2 Date: 17-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-06-19	17-06-19	07	22500	430	19.11	**18.81**
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	415	18.44	

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NC/QC/PD/MW-01/2019-20/YP3-CB3 Date: 18-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-19	18-06-19	07	22500	410	18.22	18.74
	002	"	"	"	"	430	19.11	
	003	"	"	"	"	425	18.89	

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NC/QC/PD/MW-01/2019-20/YP3-CB2a Date: 08-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	10-06-19	08-07-19	28	22500	590	26.22	**26.52**
	002	"	"	"	"	605	26.89	
	003	"	"	"	"	595	26.44	

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NC/QC/PD/MW-01/2019-20/YP3-CB3a Date: 09-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-06-19	09-07-19	28	22500	600	26.67	**27.19**
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	615	27.33	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

Page No. 1/1,

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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NC/QC/PD/MW-01/2019-20/YP3-CB4 Date: 25-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-19	25-06-19	07	22500	395	17.56	**16.89**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	360	16.00	

K.R

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Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NC/QC/PD/MW-01/2019-20/YP3-CB4a **Date: 16-07-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Construction of Yoga Center Building at Proposed Park in Mallasandra Sy No.33 in Ward No.13.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-19	16-07-19	28	22500	505	22.44	**22.37**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	510	22.67	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

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